

**Notice of Allowability**

Application No.

09/767,302

Examiner

J. Bret Dennison

Applicant(s)

SATO ET AL.

Art Unit

2143

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 5/19/2006.
2. ☒ The allowed claim(s) is/are 1-3 and 5-9.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some\* c) ☐ None of the:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date \_\_\_\_\_
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☒ Interview Summary (PTO-413), Paper No./Mail Date attached.
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_

  
DAVID WILEY  
SUPERVISORY PATENT EXAMINER  
TECHNOLOGY CENTER 2100

### **EXAMINER'S AMENDMENT**

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

Authorization for this Examiner's amendment was given in a telephone interview with Brian Hennasy on 7/10/2006.

The application has been amended as follows:

### **IN THE CLAIMS**

Please replace claim 1 with the following:

1. A routing apparatus for obtaining routing data conforming to a destination address of a packet that arrives from a line, adding the routing data onto the packet, and switching the packet based upon the routing data to send the packet to a prescribed line, comprising:

a main controller having a routing data generator for generating routing data conforming to a requested destination address and sending the routing data to a requesting source;

a line interface for extracting a destination address from a packet that arrives from a line, generating routing-data request for requesting said main controller to be notified of routing data conforming to this destination address, adding the routing data of

which notification has been given by said main controller onto the packet and then outputting the packet;

a switch for sending the routing data request, which enters from a prescribed line interface, to the main controller, sending the routing data from said main controller to a line interface of the requesting source, and switching a packet with attached routing data based upon the routing data to ~~thereby~~ send the packet to another line interface,

wherein said main controller has routing data generators, each associated with a line speed;

said line interface adds a line identifier onto a destination address of a packet that arrives from a line ~~so that the routing data request is created and requests said main controller to be notified of routing data~~ line, creating the routing-data request and notifying said main controller of routing data;

said main controller responds to the request by generating routing data from whichever routing data generator corresponds to a line speed indicated by the line identifier and sending this routing data to the line interface that is the requesting source.

### ***Reasons for Allowance***

Claims 1-3 and 5-9 are allowed in view of the Applicant's arguments (Response filed 5/19/2006, pages 7-8) and the cited prior art of record. The independent claims recite a routing apparatus for obtaining routing data conforming to a destination address of a packet which arrives on a line, adding routing data to the packet and switching the packet based upon the routing data to send the packet to a prescribed line, in which a

line interface extracts a destination address from the packet, generates a routing data request to request a main controller to be notified of routing data conforming to the destination address, adds the routing data of which notification has been given from the main controller and outputting the packet from the line interface to a switch which sends the packet to a line interface, wherein the main controller has routing data generators, which are content addressable memories, each associated with a line speed, wherein the routing data generator is picked from a line identifier, added by the line interface, the line identifier corresponding to a line speed, which, in addition to the rest of the claim limitations, are distinguished from the prior art. For support, see Instant Specification (page 1, lines 5-15, page 10, lines 19-30, pages 11-12, 19-22).

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

### ***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to J. Bret Dennison whose telephone number is 571-272-3910. The examiner can normally be reached on Monday-Thursday 9am-5:30pm Eastern.


If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Wiley can be reached on 571-272-3923. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



JBD



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